

H 6210

507

17

Dredge } No. H6210 Date, Sept 4, 1916  
Hydrog. }

Sdg. Mch. Elect Reel Elect Shot 30 lbs.

Sdg. Mch. Elect Reel Elect Shot 30 lbs.

Turns ..... Cor'n ..... Depth 136.5 fms.

Sdg. Cup *Prunus* (salt soap) Amt. Bot'm Simple

Character of Bottom fine blk. S. fine gr. S. co blk s.

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
          { Stem. -----

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 56° Time 3:35 P } Air { 64°  
Time

Density: Surf. fms.

Wind: Direction 020 x 010 Force 3

Baromet. 30.13 Amt. of Clouds 2 State of Sea M.

Weather *bc*

Direction and Force of Current. { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_

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General Locality Off Columbia River

Position Cape Shoalwater Light bears N 89° E (true)  
Chart used: No. 6100 Ed'n distant 29.5 miles

Chart used: No. 6100 Ed'n Assault 29.5 miles

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul .....

#### Apparatus and Rig used

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer Mr. Chapin Recorder C. C. DeLong  
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>P</i> M. DOWN.	UP.	<i>P</i> M.		M. DOWN.	UP.	M.
3 31 50	3 34 40		0			
3 32 50	3 33 05	1365	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
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			2800			
			2900			
			3000			
			3100			
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			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

(18)

Dredge } No. 6211 Date, Sept 4, 1910  
 Hydrog. }  
 Sdg. Mch. Elect Reel Elect Shot/Lead 30 lbs.  
 Turns Cor'n Depth 194 fms.

Sdg. Cup Arming (soft soil) Amt. Bot'm Sample

Character of Bottom (fine blk. S) fine gr. S

Thermom. { Make Cor'n { Instr.  
 No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 3:54 } Air { 64°  
 Time

Density: Surf. fms.

Wind: Direction NW x SE Force 3

Baromet. 30.13 Amt. of Clouds 2 State of Sea M

Weather bc

Direction and Force of Current { Surface  
 Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears N 89 1/2° E (true) distant 30.4 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Shepley Recorder C. E. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. DOWN.	UP.	P. M.		M. DOWN.	UP.	M.
3 49 00	3 52 45		0			
3 50 15	3 50 30	194	<del>100</del>			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			1900			
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			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

(19)

Predge } No. 6212 Date, Sept 4, 1915  
 Hydros. }  
 Sdg. Mch. Electric Reel Elec Shot 30 lbs.  
 Lead }  
 Turns Cor'n Depth 219 fms.  
 Sdg. Cup Arming (soft soap) Amt. Bot'm Sample  
 Character of Bottom fine black sand & muddy s

Thermom. { Make Cor'n { Instr.  
 No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 4:13 } Air { 67°  
 Time

Density: Surf. fms.

Wind: Direction N. by N. Force 3

Baromet. 30.13 Amt. of Clouds 2 State of Sea M.

Weather bc

Direction and Force of Current { Surface  
 Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears N 89 1/2° E (true) distant 31.3 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer McQuinn Recorder Parker

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.			M. Down.	Up.	M.	
4	07	10	4	12	00			
4	09	50	4	09	25			
				219	100			
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
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				2900				
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				3100				
				3200				
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				3900				
				4000				
				4100				
				4200				
				4300				
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				4700				
				4800				
				4900				



Predge } No. 6213 Date, Sept 4, 1915  
Hydrog. }

Sdg. Mch. Electric Reel Elec Shot 30 lbs.  
Lead }

Turns Cor'n Depth 247 fms.

Sdg. Cup Herring (soft rock) Amt. Bot'm Sample

Character of Bottom Green mud, gray shale

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 4:32 } Air { 67°  
Time

Density: Surf. fms.

Wind: Direction N. by N Force 3

Baromet. 30.13 Amt. of Clouds 2 State of Sea M

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light, bears E (true)  
Chart used: No. 6100 distant 32.3 miles  
Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P.	M.		M. Down.	Up.	M.	
4	25	35	4	30	45			
4	27	25	4	27	40			
				247	100			
				0				
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
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				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Bridge } No. 4 Date, July 4, 1915  
Hydrog. }

Sdg. Mch. Lucas Reel C. S. Shot Lead 30 lbs.

Turns Cor'n Depth 2300 fms.

Sdg. Cup (Amey's) Amt. Bot'm Sample

Character of Bottom M. S.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction 44/54 Force 3

Baromet. 30.13 Amt. of Clouds 2 State of Sea M

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears  $389\frac{1}{2}^{\circ}$  E (true) distant 35.2 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer J. J. Recorder J. J.

## SOUNDING WIRE.

FMS.

M. Down.	Up.	M.
12 20	11 50	08

## DREDGING CABLE.

M. Down.	Up.	M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

*Trawl* } No. *6100* Date, *July 11*, 19 *1911*  
*Hydrog.* }

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth *261* fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom *light gray sand*

Thermom. { Make *U U U* Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { Time \_\_\_\_\_ } Air {  
Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *SE* Force \_\_\_\_\_

Baromet. *30.2* Amt. of Clouds *1* State of Sea *ch*

Weather *bc*

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Columbia River*

Position *Cape Shoalwater Light bears S 89 1/4° E (true) distant 32.2 miles*

Chart used: No. *6100* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_



Dredge } No. 6216 Date, Sept 1, 1902  
Hydrog. }  
Sdg. Mch. Reel Shot Lead 30 lbs.  
Turns Cor'n Depth 202 fms.

Sdg. Cup (Herringhoff) Amt. Bot'm Sample  
Character of Bottom (B. L. S. M.)

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54.1 Time 5:35 Air { 63.2  
Time

Density: Surf. fms.

Wind: Direction 7:22 Force 2

Baromet. 30.12 Amt. of Clouds 1 State of Sea 24

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Columbia River

Position 46° 12' N 124° 31.2' W

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

5	30	35	5	34	50	0
5	32	10	5	32	20	100
						200
						300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
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						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900



Dredge } No. 6217 Date, Feb, 1911  
Hydrog. }  
Sdg. Mch. Lucas Reel 6110 Shot/Lead 50 lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 24 fms.  
Sdg. Cup 1 Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_

Thermom. { Make V Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                    { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { 54° Time 5:53 } Air {  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction N. W. Force 1

Baromet. 30.10 Amt. of Clouds 1 State of Sea N

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Columbia River

Position Cape Shoalwater Light bears S 87 3/4° E (true)  
6.100 distant 30.3 mile  
Chart used: No. \_\_\_\_\_ Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
47	50	5	0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			3200			
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			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 10 Date, Aug 1, 1905  
Hydrog. }  
Sdg. Mch. Reel Shot Lead 5 lbs.  
Turns f Cor'n Depth 111 fms.

Sdg. Cup type cup Amt. Bot'm Sample

Character of Bottom fine sand & shells

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 6:10 Air { 63°  
Time

Density: Surf. fms.

Wind: Direction NW Force 1

Baromet. 30.0 Amt. of Clouds 1 State of Sea 2

Weather B

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears S 87° E (true) distant 29.4 miles  
Chart used: No. 6100 Ed'n

Drift: Direction Distance.

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
↓ M. Down.	Up.	↓ M.		--- M. Down.	Up.	--- M.
6 06 30	6 08 50		0			
6 07 20	6 07 30	111.5	<del>400</del>			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
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			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. *17* Date, *July 1*, 19*15*  
 Hydrog. }  
 Sdg. Mch. *Luc* Reel *1* Shot *30* lbs.  
 Lead  
 Turns Cor'n Depth *98* fms.  
 Sdg. Cup. *1/2* Amt. Bot'm Sample  
 Character of Bottom *fine sand*  
 Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_  
 Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
 Temp. Surf. { *54.0* Time *6:27* { Air { *63.0*  
 { \_\_\_\_\_ Time \_\_\_\_\_ { \_\_\_\_\_  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction *NW* Force *1*  
 Baromet. *30.1* Amt. of Clouds *1* State of Sea *1/2*  
 Weather *bc*

Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Columbia River*

Position *Cape Shoalwater Light bears S 86 1/4 E (true) distant 28.5 miles.*  
 Chart used: No. *6100* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing h. \_\_\_\_\_ m. \_\_\_\_\_

Remarks: \_\_\_\_\_

Deck Officer *W. J.* Recorder \_\_\_\_\_

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. DOWN.			Up.		M.		M. DOWN.			Up.		M.
6	22	40	6	26	20	0						
6	23	40	6	23	50	98-100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
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						3900						
						4000						
						4100						
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						4700						
						4800						
						4900						

Dredge } No. *1* Date, *Oct 1*, 19*15*  
Hydrog. }  
Sdg. Mch. *Lucas* Reel *1* Shot Lead *30* lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth *92* fms.

Sdg. Cup *Jeffrey* Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom *Green Muds*

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                         { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { *54.0* Time *6-* } Air { *63.0*  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *NW* Force *1*

Baromet. *30.10* Amt. of Clouds *1* State of Sea *21*

Weather *bc*

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Columbia River*

Position *Cape Shoalwater Light bears S 85° E (true) distant 27.6 miles*

Chart used: No. *6100* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer *Mr. Glantz* Recorder *Blair*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
6 37 00	6 41 10		0			
6 39 12	6 40 00		<del>100</del>			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			3200			
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			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



Dredge } No. 6221 Date, Sept 4, 1916  
Hydrog. }

Sdg. Mch. E. C. Reel Shot Lead 30 lbs.

Turns Cor'n Depth 40 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom fine gy. S.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction N.W. Force 2

Baromet. 30.11 Amt. of Clouds 2 State of Sea M.

Weather Sea

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears  $177^{\circ}$  E (true) distant 23.7 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
P. M. Down.		Up.		P. M.		M. Down.		Up.	M.	
8	19	35	5	23	10					
8	20	50	5	2	00					
					0					
					100					
					200					
					300					
					400					
					500					
					600					
					700					
					800					
					900					
					1000					
					1100					
					1200					
					1300					
					1400					
					1500					
					1600					
					1700					
					1800					
					1900					
					2000					
					2100					
					2200					
					2300					
					2400					
					2500					
					2600					
					2700					
					2800					
					2900					
					3000					
					3100					
					3200					
					3300					
					3400					
					3500					
					3600					
					3700					
					3800					
					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

Bridge } No. 1292 Date, , 1915  
Hydrog. }

Sdg. Mch. Reel Shot/Lead 30 lbs.

Turns Cor'n Depth 232 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom hard

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction N.W. Force 2

Baromet. Amt. of Clouds 2 State of Sea 2

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Columbia River

Position Cape Shoalwater Light bears N 73 1/2° E (true) distant 23.1 mile  
Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	M.		M. Down.	Up.	M.
5-42 10	5-47 46		0			
5-44 15	5-48 39	234	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.		Up.	M.				M. Down.	Up.	M.
6	00	45	6	12	15	0			
6	01	19	6	01	00	100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Dredge } No. 6224 Date, , 19  
Hydrog. }  
Sdg. Mch. Reel Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth 72 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {  
Time }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds 6 State of Sea

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Oregon Coast

Position Tillamook Head Light bears S 56 1/2° E (true)  
Chart used: No. 6100 distant 15.3 miles

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900



Dredge } No. *1* Date, *Aug 10*, 19*02*  
Hydrog. }

Sdg. Mch. *Lucas* Reel *Lucas* Shot } *50* lbs.  
Lead }

Turns *77* Cor'n *0* Depth *77* fms.

Sdg. Cup *Lucas* Amt. Bot'm Sample *0*

Character of Bottom *0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100*

Thermom. { Make *Lucas* Cor'n { Instr. *Lucas*  
No. *0* Stem. *0*

Bottom Reading *0* Cor'd Temp. *0*

Temp. Surf. { Time *0* Air {  
Time *0*

Density: Surf. *0* fms. *0*

Wind: Direction *0* Force *0*

Baromet. *0* Amt. of Clouds *0* State of Sea *0*

Weather *0*

Direction and Force of Current { Surface *0*  
Bottom *0*

Tide *0*

General Locality *Off Oregon Coast*

Position *Tillamook Head Light bears S 65° E (true) distant 15.5 miles*

Chart used: No. *6100* Ed'n *0*

Drift: Direction *0* Distance *0*

Depth of Haul *0*

Apparatus and Rig used *0*

Time towing *0* h. *0* m.

Remarks: *0*

Deck Officer *0* Recorder *0*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
6	57	00	0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

11-1023

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot</i>	<i>lbs.</i>
		<i>Lead</i>	

Turns ..... Cor'n ..... Depth ..... 0.2 ..... fms.

Sdg. Cup	1	10.00	Amt. Bot'm
			Sample

Character of Bottom 1' 5' Green mud

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
          { Stem. -----

Bottom Reading ----- Cor'd Temp. .

Temp. Surf. { Time 7:00 } Air { 66 }  
 { Time } { }

Density: Surf. fms.

Wind: Direction  Force 

Baromet. 30.09 Amt. of Clouds State of Sea M

Weather ..... 11

<i>Direction and Force of Current.</i>	$\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$	.....
		.....

*Tide* 2 000 000 000 010 020 030 040 050 060 070 080 090 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

### General Locality

Position Tellamook Head Light bears  $S 80^{\circ} E$  (true).

Chart used: No. 6100 Ed'n 16.8 miles

Drift: Direction ..... Distance .....

Depth of Haul

### Apparatus and Rig used

Time towing                      h.                      m.

Remarks: \_\_\_\_\_

Deck Officer                     

Recorder . . .

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
7	27	35	0			
7	28	10	82-100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6228 Date, , 19  
Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_  
Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { 54° Time 7:57 } Air { 61°  
                                  Time                                   Time

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_  
Baromet. 30.10 Amt. of Clouds 8 State of Sea 11  
Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Oregon coast

Position Tillamook Head Light bears S 87° E (true)  
Chart used: No. 6100 distant 17.5 miles

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder J. W. K. N.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
A	7	11	0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



Dredge } No. 11 Date, July 5, 1911

Hydrog. } Sdg. Mch. Reel Shot Lead 20 lbs.

Turns Cor'n Depth 82 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54 Time 7:16 Air {

Density: Surf. 86 fms.

Wind: Direction 86 Force 1

Baromet. 30.10 Amt. of Clouds 6 State of Sea 4

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Oregon Coast

Position Tillamook Head Light bears S 82 1/2° E (true)

Chart used: No. 6100 Ed'n distant 17.2 miles

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	A.M.		M. DOWN.	UP.	M.
13:25	8:15	25	0			
14:00	8:14	15	400			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. *115* Date, *Aug 11*, 19*12*  
Hydrog. }  
Sdg. Mch. *Lucas* Reel *30* lbs.  
Lead *82*  
Turns *82* Cor'n *82* Depth *82* fms.  
Sdg. Cup *Lucas* Amt. Bot'm Sample *115*  
Character of Bottom *fine sand*

Thermom. { Make *Lucas* Cor'n { Instr. *Lucas*  
No. *115* Stem. *Lucas*  
Bottom Reading *82* Cor'd Temp. *61*  
Temp. Surf. { Time *8:30* Air {  
Time *8:30*

Density: Surf. *82* fms. *1*  
Wind: Direction *SE* Force *1*  
Baromet. *30.10* Amt. of Clouds *8* State of Sea *2*  
Weather *b. c.*

Direction and Force of Current { Surface *SE*  
Bottom *SE*

Tide *low*

General Locality *Off Oregon coast*

Position *Tillamook Head Light bears S 78° E (true) distant 16.9 mile*  
Chart used: No. *6100* Ed'n *16.9*

Drift: Direction *SE* Distance *16.9*

Depth of Haul *82*

Apparatus and Rig used *Lucas*

Time towing *h. m.*

Remarks: *Lucas*

Deck Officer *Mr. A. J. Lucas* Recorder *Blaker*  
11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up.		M.	Up.	M.
8 27 45	8 29 50	0			
8 28 25	8 28 45	100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

11-1023

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. DOWN. Up. *2* M.

M. DOWN. Up. M.

*2 43 20 2 43 20 8 100*

0  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

Dredge } No. 625 Date, Oct 5, 1912  
Hydrog. }  
Sdg. Mch. Reel Shot Lead 20 lbs.  
Turns Cor'n Depth 78 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.  
Temp. Surf. { 54 Time 8:29 } Air { 61  
Time

Density: Surf. 86 fms.

Wind: Direction SE Force 1

Baromet. 30.1 Amt. of Clouds 6 State of Sea M

Weather bcg

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 68 1/2° E (true)  
Chart used: No. 6100 distant 16.8 miles.  
Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer M. H. Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	L. M.			M. Down.	Up.	M.
8'57 30	1 59 30			0			
55	5 59 12 7			100-			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			



Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ ~~Shot~~ 30 lbs.  
Lead }

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 77 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom Green Sand

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 55 Time 9<sup>20</sup> } Air { 62.2  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction 86 Force 1

Baromet. 30.12 Amt. of Clouds 9 State of Sea 4

Weather hazy

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Oregon coast

Position Tillamook Head Light bears S 64° E (true) distant 16.9 miles

Chart used: No. 6100 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

## SOUNDING WIRE.

*α* M. Down. | Up. *α* M.

*9 1/4 10 9 18 00*  
*1 1/2 10 9 18 00 1/2*

FMS.

## DREDGING CABLE.

--- M. Down. | Up. --- M.

0

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Hydrog. } No. \_\_\_\_\_ Date, *Oct 15*, 19*15*  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot \_\_\_\_\_ lbs.  
Lead \_\_\_\_\_

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth *72.5* fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom *gn. M. s. gy. S.*

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { *65.0* Time *1:57 P* } Air { *65.0*  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *21.2.26.* Force *1*

Baromet. *30.11* Amt. of Clouds *.8* State of Sea *M.*

Weather *b.c.*

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Oregon Coast*

Position *Tillamook Head Light bears S 63 1/2° E (true) distant 18.0 miles*  
Chart used: No. *6100* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer *[Signature]* Recorder *[Signature]*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
15440	1120	10	0			
13540	1000	10	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6235 Date, Sept 5, 1915

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 71 fms.

Sdg. Cup Dredge (soft sck) Amt. Bot'm Sample

Character of Bottom gy. sh., br. sh.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 57° Time 2:20 P } Air { 63°

Density: Surf. fms.

Wind: Direction S.W. Force

Baromet. 30.14 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 60 3/4° E (true)

Chart used: No. 6100 Ed'n distant 18.4 miles

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up. P. M.		M. Down.	Up.	M.
2 15 40	2 15 40	0			
		100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			



SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	C <sup>d</sup> M.		M. Down.	Up.	M.
1 20 30	2 32 00		0			
2 30 30	2 30 35		100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			





SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
2 46 00	2 47 20		0			
2 46 25	2 46 35	69	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

(16)

Tredge } No. 6-25 Date, Jan 15, 1915  
Hydrog. }

Sdg. Mch. Elect Reel Elect Shot Lead 36 lbs.

Turns Cor'n Depth 68 fms.

Sdg. Cup Corning / salt water Amt. Bot'm Sample

Character of Bottom fine sand

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 57 Time 3:00 P } Air { 63 Time

Density: Surf. fms.

Wind: Direction S.S.W. Force 1

Baromet. 30.15 Amt. of Clouds 8 State of Sea L

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Oregon Coast

Position Tillamook Head Light bears S 53° E (true) distant 19.8 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>P</i> M. Down.	Up.	<i>P</i> M.		M. Down.	Up.	M.
3 00 30	3 01 50		0			
3 00 35	3 01 00	65	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

*Drifted*  
Hydrog. } No. 6227 Date, Jan 6, 1918  
Sdg. Mch. 611 Reel 611 Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth 720 fms.

Sdg.	Cup	Drawing for	Amt.	Bot'm
				Sample

Character of Bottom *fine g.l.*

Thermom. { Make ..... Cor'n { Instr. ....  
              { No. ....                         { Stem. ....

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { ~~63~~<sup>57</sup> Time 3:30 P } Air { ~~65~~<sup>65</sup> }  
Time

Density: Surf. .... fms. ....

Wind: Direction *SE* Force *1*

Baromet. 30.15 Amt. of Clouds .8 State of Sea L

Weather *bc*

Direction and Force of Current.  $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$

*Tide* 1

General Locality *Off Oregon coast*

Position Tillamook Head Light bears S 59° E (true) distant 19.5 miles  
Chart used: No. 6100 Ed'n

Chart used: No. 6100 Ed'n \_\_\_\_\_

*Drift: Direction* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
*Distance* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Depth of Haul . . . . .

### Apparatus and Rig used

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer: \_\_\_\_\_ Recorder: \_\_\_\_\_

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.			Up.	M.			M. Down.			Up.	M.	
3	27	35	3	29	10	0						
2	28	10	3	27	25	100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Hydrog. } No. 6270 Date, Sept 1, 1912

Sdg. Mch. Reel Shot/Lead 20 lbs.

Turns Cor'n Depth 72 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction S.W. Force 1

Baromet. 30.14 Amt. of Clouds 7 State of Sea L

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 61 3/4° E (true) distant 19.5 miles

Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 42 45	3 44 10		0			
3 43 10	3 43 25	32	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19 \_\_\_\_\_  
Hydrog. }

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead } 3 lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 73 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 57° Time 4:00 } Air { 63°  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. \_\_\_\_\_ Amt. of Clouds \_\_\_\_\_ State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Oregon coast

Position Tillamook Head Light bears S 64 1/2° E (true) distant 19.5 miles

Chart used: No. 6100 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

3	57	00	3	58	30
3	57	30	3	6	

75' 100'

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

23  
Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }  
Sdg. Mch. *Hydrog.* Reel \_\_\_\_\_ Shot } *30* lbs.  
Lead }  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup *Hydrog.* Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_  
Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                         { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { *57°* Time *4:13* } Air { *63*  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction *SE* Force *1*  
Baromet. \_\_\_\_\_ Amt. of Clouds *6* State of Sea *2*  
Weather *bc*

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Oregon coast*

Position *Tillamook Head Light bears S 67 1/4° E (true) distant 19.5 miles*  
Chart used: No. *6100* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer *W. E. Allen* Recorder *J. H. Allen*

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

0  
10 25

75

*Formule* } No. \_\_\_\_\_ *Date,* \_\_\_\_\_, 19\_\_  
*Hydrog.* }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot</i> <i>Lead</i>	<i>lbs.</i>
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Turns	Cor'n	Depth	fms.
1		10	
2		20	
3		30	
4		40	
5		50	
6		60	
7		70	
8		80	
9		90	
10		100	
11		110	
12		120	
13		130	
14		140	
15		150	
16		160	
17		170	
18		180	
19		190	
20		200	
21		210	
22		220	
23		230	
24		240	
25		250	
26		260	
27		270	
28		280	
29		290	
30		300	
31		310	
32		320	
33		330	
34		340	
35		350	
36		360	
37		370	
38		380	
39		390	
40		400	
41		410	
42		420	
43		430	
44		440	
45		450	
46		460	
47		470	
48		480	
49		490	
50		500	
51		510	
52		520	
53		530	
54		540	
55		550	
56		560	
57		570	
58		580	
59		590	
60		600	
61		610	
62		620	
63		630	
64		640	
65		650	
66		660	
67		670	
68		680	
69		690	
70		700	
71		710	
72		720	
73		730	
74		740	
75		750	
76		760	
77		770	
78		780	
79		790	
80		800	
81		810	
82		820	
83		830	
84		840	
85		850	
86		860	
87		870	
88		880	
89		890	
90		900	
91		910	
92		920	
93		930	
94		940	
95		950	
96		960	
97		970	
98		980	
99		990	
100		1000	

Sdg. Cup Amt. Bot'm Sample

Character of Bottom \_\_\_\_\_

Thermom. { Make ..... Cor'n { Instr. ....  
              { No. ....                                 { Stem. ....

Bottom Reading ..... Cor'd Temp. ....

Temp. Surf. { 57° Time 4:25 } Air { 6° }  
Time

Density: Surf. fms.

Wind: Direction, \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 30 Amt. of Clouds 6 State of Sea

Weather

Direction and Force of Current.	{	Surface	.....
		Bottom	.....

General Locality *Off Oregon coast*

Position Tellamook Head Light bears S 70° E (true)  
Chart used: No. 6100 distant 19.6 miles  
Ed'n

Drift: Direction	Distance
------------------	----------

Depth of Haul .....

#### Apparatus and Rig used

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer *Recorder* *Law*

## SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

## DREDGING CABLE.

M. Down. | Up. | M.

0  
 75 100  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
 1100  
 1200  
 1300  
 1400  
 1500  
 1600  
 1700  
 1800  
 1900  
 2000  
 2100  
 2200  
 2300  
 2400  
 2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000  
 4100  
 4200  
 4300  
 4400  
 4500  
 4600  
 4700  
 4800  
 4900

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
         { Stem -----

Temp. Surf. { 57. Time 4:41 } Air { 6

Baromet.	30.12	Amt. of Clouds	1	State of Sea	2
----------	-------	----------------	---	--------------	---

Direction and Force of Current. { Surface.....  
 { Bottom.....

General Locality *off Oregon coast*

Position Tillamook Head Light bears S 73° E (true)  
Chart used: No. 6100 Ed'n distant 19.7 miles

#### Apparatus and Rig used

Remarks:

Deck Officer \_\_\_\_\_ Recorder W. H. H. H.

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900



Dredge } No. 6275 Date, \_\_\_\_\_, 19\_\_\_\_  
 Hydrog. }  
 Sdg. Mch. 10110100 Reel 6152 Shot } 80 lbs.  
 Lead }  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 78 fms.  
 Sdg. Cup 10110100 Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom 0.5 fms. sand & shells

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { Time \_\_\_\_\_ } Air {  
 Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction S.W. Force 1

Baromet. 30.12 Amt. of Clouds 7 State of Sea 3

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
 Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Oregon Coast

Position Tillamook Head Light bears S 78° E (true)  
 Chart used: No. 6100 Ed'n distant 20.2 miles

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer W. H. Smith Recorder W. H. Smith

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6246 Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }  
Sdg. Mch. Lucas Reel Lucas Shot } 50 lbs.  
Lead }  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 86 fms.  
Sdg. Cup Lucas Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom gy. S. m.

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 57° Time 5:08 } Air {  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction E. N. E. Force 1

Baromet. 30.12 Amt. of Clouds 7 State of Sea 2

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Oregon Coast

Position Tillamook Head Light bears S 86° E (true)  
distant 21.2 miles

Chart used: No. 6100 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1 Date, , 19.  
Hydrog. }  
Sdg. Mch. Reel 56 Photo 56 lbs.  
Leads  
Turns Cor'n Depth 86 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom Green mud

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 57 Time 6 15 } Air { 62  
Time

Density: Surf. fms.

Wind: Direction 6 W Force 1

Baromet. 30.11 Amt. of Clouds 9 State of Sea 2

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 81 1/2 E (true)

Chart used: No. 6100 Ed'n distant 21.9 miles

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
6 10 20		12 25	0			
11 00	6	11 20	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

dredge } No. 1248 Date, Aug 15, 1915  
Hydrog. }  
Sdg. Mch. Reel Shot/Lead 30 lbs.  
Turns Cor'n Depth 84 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.  
Temp. Surf. { 57 Time 6:17 Air { 62.0  
Time

Density: Surf. fms.  
Wind: Direction 50 Force 1  
Baromet. 30.11 Amt. of Clouds 6 State of Sea 4  
Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 77° E (true) distant 22.6 naut.  
Chart used: No. 6100 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer M. S. H. Recorder

## SOUNDING WIRE.

M. Down.	Up.	M.
6 44 30	6 45 40	

FMS.

## DREDGING CABLE.

M. Down.	Up.	M.

0

~~100~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900



Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19 / 2  
Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot \_\_\_\_\_ lbs.  
Lead \_\_\_\_\_  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                         { Stem. \_\_\_\_\_  
Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { 56 \_\_\_\_\_ Time 7:00 \_\_\_\_\_  
                  { \_\_\_\_\_ Time \_\_\_\_\_ { Air { 60 \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction NW \_\_\_\_\_ Force \_\_\_\_\_  
Baromet. 30.12 \_\_\_\_\_ Amt. of Clouds 5 \_\_\_\_\_ State of Sea 8  
Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality off Oregon coast

Position Tillamook Head Light bears S 75° E (true)  
Chart used: No. 6100 Ed'n distant 23.0 miles

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
✓ M. Down.	Up.	✓ M.			M. Down.	Up.	M.
7 02 05		04 25		0			
02 40 7		02 02		100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Date, *Sept 5*, 19*15*  
 No. *500*  
 Sdg. Mch. *Lucas* Reel *Lucas* Shot *50* lbs.  
 Turns. *1000* Cor'n *1000* Depth *87* fms.  
 Sdg. Cup *Lucas* Amt. Bot'm Sample  
 Character of Bottom *fine sand*

Thermom.  $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right.$  Cor'n  $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading ----- Cor'd Temp. -----  
 Temp. Surf. { 56 Time 7:31 } Air { 60°  
 Time -----

Density: Surf. 2 fms.

Wind: Direction *NE* Force *1*

Baromet. 30.12 Amt. of Clouds 5 State of Sea 4

### Weather

Direction and Force of Current.	{	Surface	_____
		Bottom	_____

*Title* \_\_\_\_\_

General Locality *Off Oregon coast* .....

Position Tillamook Head Light bears S 73° E (true)

Chart used: No. 6100 Ed'n desired 25.5 min

Drift: Direction	Distance
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Depth of Haul . . . . .

### Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer *John S. ...* / Recorder *P. ...* 11 1000

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
7 18 25		20 25	0			
19 00 7		67	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~Drinker~~ } No. 6251 Date, Sept 5, 1918  
 Hydrog. }  
 Sdg. Mch. Reel Shot 30 lbs.  
 Leads  
 Turns Cor'n Depth 81 fms.  
 Sdg. Cup Amt. Bot'm Sample  
 Character of Bottom

Thermom.  $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right.$  Cor'n  $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading ..... Cor'd Temp. ....

Temp. Surf. { 56 Time 7<sup>56</sup> 11 } Air { 60 }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction 260 Force 1

Barmet.	Amt. of Clouds	State of Sea
2012	2	

Weather *b-cy*

Direction and Force of Current.	Surface	.....
	Bottom	.....

Tide .....

General Locality *Off Oregon Coast*

Position Illawook Head Light bears S 71° E (true)  
Chart used: No. 6100 distant 24.1 miles Ed'n \_\_\_\_\_

Drift: Direction ..... Distance .....

Depth of Haul .....

Apparatus and Rig used .....

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deputy Clerk *W. H. [unclear]* Recorder *R. [unclear]*  
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
7' 35		36' 30	0			
35 20	7' 35	36	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~Hydrog.~~ } No. 6252 Date, Aug 15, 1915  
Hydrog. }  
Sdg. Mch. 6 Lect Reel 62 Shot  
Lead 50 lbs.

Turns	Cor'n	Depth	fms.
-------	-------	-------	------

Sdg. Cup *1000* Amt. Bot'm Sample

Character of Bottom fine sand, fine gravel

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
       { Stem. -----

Bottom Reading ----- Cor'd Temp. -----

Temp. Surf. { 55- Time 8:05 P } Air { 60°  
Time

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction 200 Force 1

Baromet.	30.1	Amt. of Clouds	—	State of Sea	2
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Weather : Cloudy

Direction and Force of Current.	Surface	
	Bottom	

Tide \_\_\_\_\_

General Locality (L. ...)

Tillamook Head Light bears S 67 1/2° E (true) distant 25.2 miles.  
Position Col. Light 1° 45' N 71° E (true) dist 17' miles.

Chart used: No. 6100 Ed'n \_\_\_\_\_

Drift: Direction . . . . . Distance . . . . .

Depth of Haul .....

#### Apparatus and Rig used

Time towing \_\_\_\_\_ h, \_\_\_\_\_ m.

Remarks:

Deck Officer *W. D. ...* Recorder *W. D. ...*

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
M.	Down.	Up.	M.			M.	Down.	Up.	M.	
8	02	30	8	04	20	0				
8	03	10	8	04	30	100				
						200				
						300				
						400				
						500				
						600				
						700				
						800				
						900				
						1000				
						1100				
						1200				
						1300				
						1400				
						1500				
						1600				
						1700				
						1800				
						1900				
						2000				
						2100				
						2200				
						2300				
						2400				
						2500				
						2600				
						2700				
						2800				
						2900				
						3000				
						3100				
						3200				
						3300				
						3400				
						3500				
						3600				
						3700				
						3800				
						3900				
						4000				
						4100				
						4200				
						4300				
						4400				
						4500				
						4600				
						4700				
						4800				
						4900				



21

Wrege } No. 6353 Date, April 5, 1915  
 Hydrog. }  
 Sdg. Mch. 8 lb. Reel 2 Shot/Lead 2 lbs.

Turns	Cor'n	Depth	S'g	fms.
1		10		
2		20		
3		30		
4		40		
5		50		
6		60		
7		70		
8		80		
9		90		
10		100		
11		110		
12		120		
13		130		
14		140		
15		150		
16		160		
17		170		
18		180		
19		190		
20		200		
21		210		
22		220		
23		230		
24		240		
25		250		
26		260		
27		270		
28		280		
29		290		
30		300		
31		310		
32		320		
33		330		
34		340		
35		350		
36		360		
37		370		
38		380		
39		390		
40		400		
41		410		
42		420		
43		430		
44		440		
45		450		
46		460		
47		470		
48		480		
49		490		
50		500		
51		510		
52		520		
53		530		
54		540		
55		550		
56		560		
57		570		
58		580		
59		590		
60		600		
61		610		
62		620		
63		630		
64		640		
65		650		
66		660		
67		670		
68		680		
69		690		
70		700		
71		710		
72		720		
73		730		
74		740		
75		750		
76		760		
77		770		
78		780		
79		790		
80		800		
81		810		
82		820		
83		830		
84		840		
85		850		
86		860		
87		870		
88		880		
89		890		
90		900		
91		910		
92		920		
93		930		
94		940		
95		950		
96		960		
97		970		
98		980		
99		990		
100		1000		

Sdg. Cup Amt. Bot'm Sample

Character of V Bottom

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
         { Stem -----

Bottom Reading. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

Temp. Surf.	Time	Air
	Time	

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Light Force 1

Baromet.	30.12	Amt. of Clouds	1	State of Sea	2
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Weather - C. C.

Direction and Force of Current.	Surface	.....
	Bottom	.....

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*General Locality*

Position Tillamook Head Light bears S 64° E (true)

Chart used: No. 6100' distant 26.3 miles  
Ed'n

Drift: Direction	Distance
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Depth of Haul.....

#### Apparatus and Rig used

Time towing	<i>h.</i>	<i>m.</i>
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Remarks:

Deck Officer, *James H. [unclear]* Recorder, *James H. [unclear]*

SOUNDING WIRE.						DREDGING CABLE.			
M. Down.		Up.	M.		FMS.	M. Down.		Up.	M.
8	31	06	8	33	00				
8	31	40	8	21	27	85			
					0				
					200				
					300				
					400				
					500				
					600				
					700				
					800				
					900				
					1000				
					1100				
					1200				
					1300				
					1400				
					1500				
					1600				
					1700				
					1800				
					1900				
					2000				
					2100				
					2200				
					2300				
					2400				
					2500				
					2600				
					2700				
					2800				
					2900				
					3000				
					3100				
					3200				
					3300				
					3400				
					3500				
					3600				
					3700				
					3800				
					3900				
					4000				
					4100				
					4200				
					4300				
					4400				
					4500				
					4600				
					4700				
					4800				
					4900				

~~Dredge~~ } No. 6254 Date, Dec 15, 1915  
Hydrog. }  
Sdg. Mch. 6254 Reel 54 Shot 20 lbs.  
Lead 50  
Turns 4 Cor'n. Depth 93 fms.

Sdg. Cup 1st Corp Amt. Bot'm Sample  
Character of Bottom No sample

Thermom. { Make .....  
              { No. ....

Cor'n { Instr. ....  
         { Stem. ....

Bottom Reading..... Cor'd Temp. ....

Temp. Surf. {  $\frac{54^{\circ}}{\text{---}}$  Time  $\frac{9.05-P}{\text{---}}$  } Air {  $\frac{30^{\circ}}{\text{---}}$  }

Density: Surf. fms.

Wind: Direction SE Force 1

Baromet.	30.14	Am't. of Clouds	12	State of Sea	2
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Weather bc

Direction and Force of Current.	Surface	-----	-----
	Bottom	-----	-----

General Locality Col. Columbia River

Position Tillamook Head Light bears  $S 61\frac{1}{2}^{\circ} E$  (true)  
Chart used: No. 6100 distant 27.5 miles  
Ed'n \_\_\_\_\_

Drift: Direction	Distance
------------------	----------

Depth of Haul -----

#### Apparatus and Rig used

Time towing h. m.

Remarks: \_\_\_\_\_

Deck Officer *W. J. Gandy* Recorder *W. J. Gandy* 11-1023

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up.
9 00 30	9 02 35	0		
9 01 10	9 01 20	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		



SOUNDING WIRE				FMS.	DREDGING CABLE		
M. Down.	Up.		M.		M. Down.	Up.	M.
9	18	10	9	0			
9	15	50	9	100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 6256 Date, Sept 5, 1916  
 Hydrog. }  
 Sdg. Mch. Reel Shot Lead 20 lbs.  
 Turns Cor'n Depth 101 fms.  
 Sdg. Cup Amt. Bot'm Sample  
 Character of Bottom

Thermom. { Make Cor'n { Instr.  
 { No. { Stem.  
 Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {  
 { Time {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force { Surface  
 of Current. { Bottom

Tide

General Locality Off Oregon coast

Position Tillamook Head Light bears S 59° E (true)

Chart used: No. 6100 distant 28.7 miles  
 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
9 36 10	9 38 20		0			
9 37 00	9 37 10	101	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



(35)

Predge } No. 6257 Date, Sept 5, 1915  
Hydrog. }

Sdg. Mch. Elect Reel Elect Shot Lead 30 lbs.

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 224 fms.

Sdg. Cup *Winning (soft soap)* Amb. Bot'm Sample \_\_\_\_\_

Character of Bottom *fine gy. S.*

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 53° Time 10:00 P } Air { 56°  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *NOV.* Force 1

Baromet. 30.12 Amt. of Clouds 2 State of Sea L.

Weather *bc*

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Oregon coast*

Position *Tillamook Head Light bears S 57 1/2° E (true) distant 29.4 miles*

Chart used: No. 6100 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer *Mr. Cassidy* Recorder *C. E. DeLong*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<u>P</u> M. Down.	Up.	<u>P</u> M.		<u>---</u> M. Down.	Up.	<u>---</u> M.
95340	95550		0			
95830	95840	224100	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			3100			
			3200			
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			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6258 Date, Sept 5, 1915  
Hydrog. }  
Sdg. Mch. Elect Reel Elect. Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth 285 fms.  
Sdg. Cup Arming (soft) Amt. Bot'm Sample  
Character of Bottom No bottom at 285 fath.

Thermom. { Make .....  
              { No. ....

Cor'n { Instr. ....  
          { Stem. ....

*Bottom Reading* \_\_\_\_\_ *Cor'd Temp.* \_\_\_\_\_

Temp. Surf. { 53° Time 10:40P } Air { 56°  
Time

Density: Surf. fms.

Wind: Direction N.E. Force 1

Baromet. 30.12      Amt. of Clouds 2      State of Sea L

Weather *bc*

Direction and Force of Current.	{	Surface .....
		Bottom .....

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General Locality Off Oregon coast

Position Tillamook Head Light bears S 55° E (true)

Chart used: No. 6100 distant 27.6 mile  
Ed'n

*Drift: Direction* \_\_\_\_\_ *Distance* \_\_\_\_\_

Depth of Haul \_\_\_\_\_

#### Apparatus and Rig used

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: The bottom with all  
were on reel (285 fath.)

This book checked  
R + A.

Deck Officer Mr. Cassidy Recorder C. E. DeLong  
11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up. P. M.				M. Down.			Up. M.		
10	32	50	10	39	20	0						
10	35	10	10	35	20	100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
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						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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